



# MEETING THE PROJECT MANAGEMENT CHALLENGE

# 2004

# Biography

## Orlando Santos

### Enterprise Scientist - OBPR

Dr. Santos was born in Havana, Cuba. His father was a physician and his mother a teacher. He immigrated to the United States with his family at the age of three, and grew up in Tampa, Florida. He graduated from Jesuit High School of Tampa (1975), and then received a Bachelor of Science (1980) in Zoology from the University of Florida, a Master of Science (1983) in Biology and a Ph.D. (1989) in Microbiology & Immunology from the University of Miami. He spent most of his career working in the biotechnology industry. His research interests have included studies in population genetics (the evolution of X and Y chromosomes), nucleic acid biochemistry and radiobiology (the development of chemical radiosensitizers for cancer therapy), monoclonal antibody development (for the radioimmunotherapy of cancer), angiogenesis (development of matrix metalloproteinase inhibitors for cancer therapy), and clinical studies of AIDS therapeutics. Dr. Santos joined NASA in 1999 and has served as Science Lead for the Space Station Biological Research Project assisting in building research hardware for the International Space Station. So far, that project has successfully flown a radiation dosimetry system, the Avian Development Facility, and a plant growth chamber called the Biomass Production System. Dr. Santos has also served as a Special Assistant to the Center Director and as Scientific Research Coordinator for Fundamental Space Biology at Ames. He is currently a participant in the NASA Leadership Development Program working as an Enterprise Scientist in the Office of Biological and Physical Research. He is the Fundamental Space Biology representative on the Radiation Board helping to direct NASA's research on the biological effects of space radiation exposure. Dr. Santos is a member of the American Association for Cancer Research, the Radiation Research Society, the American Society for Gravitational and Space Biology, and the American Institute of Aeronautics and Astronautics.



## NASA Project Management Conference